GB2004/002763

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 E21B43/10 E21B E21B29/10 E21B41/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 E21B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2002/185274 A1 (SIMPSON NEIL A A ET 1-6. AL) 12 December 2002 (2002-12-12) 8-13,17, 18, 21-23. 26,30 paragraphs '0006!, '0007!, '0009! - '0012!, '0025! - '0028!, '0030! - '0034!; claim 7 Υ 14-16, figures 1-9 19,20, 24,25 US 4 624 306 A (PALMER C DALE ET AL) Α 7 25 November 1986 (1986-11-25) abstract X Further documents are listed in the continuation of box C. Patent family members are listed in annex. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but clied to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another cliation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled in the art. O' document referring to an oral disclosure, use, exhibition or Po document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 23, 11, 2004 16 November 2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 840-3016 van Berlo, A

onal Application No GB2004/002763

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Chanch of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
X	US 2002/050360 A1 (STEWART R BRUCE ET AL) 2 May 2002 (2002-05-02)	28,29
Y	figures 3,6,9c,10c-10f	19,20,25
A	US 2002/092648 A1 (HACKWORTH MATTHEW R ET AL) 18 July 2002 (2002-07-18) abstract	23
X	WO 01/04535 A (STEWART R BRUCE ; COOK ROBERT LANCE (US); ENVENTURE GLOBAL TECHNOLOGY) 18 January 2001 (2001-01-18)	28
A	figures 10d-10g	19,20,25
Υ	WO 01/33037 A (STEWART R BRUCE ; COOK ROBERT LANCE (US); COWAN KENNETH MICHAEL (US);) 10 May 2001 (2001-05-10) figures 3,4	19,20,25
X	WO 00/77431 A (FRIEDMAN MARK M ; STEWART R BRUCE (NL); SHELL INT RESEARCH (NL); BRISC) 21 December 2000 (2000-12-21) figures 9c,10,11,14,27-30	28
P,A	US 2003/188868 A1 (TRAHAN KEVIN O ET AL) 9 October 2003 (2003-10-09) figures 16,17	28
X	WO 99/13195 A (NOBILEAU PHILIPPE) 18 March 1999 (1999-03-18) page 4, lines 33-38; figures 1-19	27
Y	page 7, lines 28-35; figure 20	14-16,24
X	WO 01/18353 A (E2 TECH LTD; INNES GARETH (GB); OOSTERLING PETER (NL)) 15 March 2001 (2001-03-15)	27
A	page 16, lines 7-20; figures 1-3 page 17, line 23 - page 18, line 2 page 18, line 30 - page 19, line 3 page 21, line 28 - page 22, line 1	14-16,24
X	US 6 142 230 A (WRIGHT RALPH DAVID ET AL) 7 November 2000 (2000-11-07) column 1, lines 17-25; figures 4,5,7,10 column 17, line 66 - column 18, line 34 column 22, line 13 - column 23, line 18	27
X	WO 02/35058 A (METCALFE PAUL DAVID ; HARRALL SIMON JOHN (GB); TILTON FREDERICK T (US)) 2 May 2002 (2002-05-02)	. 27
A	page 6, column 24 - page 11, column 18; figures 1-5	14-16,24
	-/ .	

GB2004/002763

0./0	Name Countries Countries to the Countries of the Countrie	GB2004/002/63
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	The state of the s	Ties valit to daily No.
X A	US 2002/144822 A1 (HACKWORTH MATTHEW R ET AL) 10 October 2002 (2002-10-10) paragraphs '0043!, '0058!, '0059!,	27
	'0062!; figures 4,11-13	14-16,24
A	US 3 203 451 A (VINCENT RENIC P) 31 August 1965 (1965-08-31) cited in the application column 10, lines 15-20; figures 1,2,7	14-16,27
P,A	GB 2 388 858 A (SCHLUMBERGER HOLDINGS) 26 November 2003 (2003-11-26) the whole document	27

rnational application No. PCT/GB2004/002763

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-13,17,18,21-23,26,30

Expanding a tubular patch

2. claims: 14-16,24,27

Deformed patch

3. claims: 19,20,25,28,29

Patch with section of increased wall thickness

onal Application No 3B2004/002763

			<u> </u>	
Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 2002185274 A1	12-12-2002	US	2001045284 A1	20 11 2001
US 2002185274 AT	12-12-2002	US	6325148 B1	
		US	2001040054 A1	
1		US	2001040054 A1 2004173355 A1	
		US	2004173355 A1 2002079100 A1	
1		AU	772790 B2	
i		AU		
		CA	1044201 A	03-07-2001
		EP	2393744 A1 1242714 A1	
		WO	0146551 A1	
1		NO	20022786 A	28-06-2001 14-08-2002
		US	20022788 A1	
1		บร	2003188868 A1	
į		US	6598678 B1	
		US	2002166664 A1	
		บร	2002100004 A1	
}		US	2003019038 A1 2003062171 A1	
1		AU	5493101 A	20-11-2001
		CA	2406663 A1	
		EP	1278932 A1	
\		WO	0186111 A1	
		NO	20024946 A	23-12-2002
		ÜS	2004159466 A1	
110 ACO 400C				مي رحد سه دي ويهاست باند وي جدا شاه دي والدرسة الكا ويما است كا اللها ب
US 4624306 A	25-11-1986 	US	4509593 A	09-04-1985
US 2002050360 A1	02-05-2002	US	6640903 B1	
		บร	6497289 B1	
		US	2003192705 A1	
		US	2002060068 A1	
		US	2002060078 A1 2002040787 A1	23-05-2002
		US US	2002040787 AI 2002060069 AI	
		US	200200009 A1 2003098154 A1	
		US	2003098134 A1	
•		US	2003094278 A1	
		US	2003094279 A1	
		ÜS	2003173090 A1	
1		US	6604763 B1	
		บร	6557640 B1	
		ÜS	2004188099 AI	
}		ÜS		
		ÜS	2004123988 A1	
		US	2002189816 A1	
		US	2003056949 A	
		US	2004045616 A1	1 11-03-2004
		US	2004118574 A1	
		US	6575240 B1	
		US	2001047870 A	
		US	2001047866 AT	
		US	2001045289 AT	
		CA	2300363 A1	
		GB	2348223 A	
		GB	2385619 A	
		GB	2385620 A	
		GB	2385621 A	,B 27-08-2003
		GB	2385622 A	,B 27-08-2003
1		GB	2385623 A	,B 27-08-2003
Form PCT/ISA/210 (patent family ennex) (January 200-				

ional Application No GB2004/002763

					2004/002/63
Patent document lited in search report		Publication date		Patent family member(s)	Publication date
US 2002050360	A1		NO	20001281 A	12-09-2000
			AU	770008 B2	12-02-2004
			AU	1641700 A	31-08-2000
			BR	0000923 A	26-09-2000
			CA	2299076 Al	25-08-2000
			DE	10007547 A1	28-09-2000
			GB	2348657 A ,B	11-10-2000
			GB	2384800 A ,B	06-08-2003
			GB	2384801 A ,B	06-08-2003
			GB	2384802 A ,B	06-08-2003
			GB GB	2384803 A ,B 2384804 A ,B	06-08-2003
			GB		06-08-2003
			GB	2384805 A ,B 2384806 A ,B	06-08-2003 06-08-2003
			GB		06-08-2003
			GB	2384807 A ,B 2384808 A ,B	06-08-2003
			NO	20000924 A	28-08-2000
			AU	771884 B2	
			AU	//1004 DZ	08-04-2004
US 2002092648	A1	18-07-2002	GB	2371063 A ,B	17-07-2002
			NO	20020223 A	17-07-2002
			US	2002092649 A1	18-07-2002
			US	2002125008 A1	12-09-2002
			US	2002125009 A1	12-09-2002
			US	2003221829 A1	04-12-2003
			US	2004163819 A1	26-08-2004
			US	2004173350 A1	09-09-2004
			BR	0200866 A	24-09-2002
ن نیدند کار		·	CA	2367859 A1	16-07-2002
WO 0104535	Α	18-01-2001	AU	776580 B2	16-09-2004
			ΑU	5921400 A	30-01-2001
			CA	2383231 A1	18-01-2001
			GB	2368865 A ,B	15-05-2002
			GB	2392932 A ,B	17-03-2004
			GB	2392686 A ,B	10-03-2004
			GB	2392691 A ,B	10-03-2004
			NO	20020070 A	08-03-2002
			MO	0104535 A1	18-01-2001
			US	2002060068 A1	23-05-2002
WO 0133037	A	10-05-2001	AU	1356601 A	14-05-2001
			CA	2389094 A1	10-05-2001
			GB	2374622 A ,B	23-10-2002
		•	GB	2390387 A ,B	07-01-2004
			GB	2390628 A ,B	14-01-2004
			NO	20022048 A	28-06-2002
			WO	0133037 A1	10-05-2001
	Α	21-12-2000	AU	4141300 A	02-01-2001
WO 0077431		_ _ - -	CA	2306656 A1	26-10-2000
WO 0077431			GB	2361724 A	31-10-2001
WO 0077431					
WO 0077431				2355738 A . B	0Z~03~Zuu:i
WO 0077431			GB	2355738 A ,B 2388391 A .B	02-05-2001 12-11-2003
WO 0077431			GB GB	2388391 A ,B	12-11-2003
WO 0077431			GB GB GB	2388391 A ,B 2388392 A ,B	12-11-2003 12-11-2003
WO 0077431			GB GB	2388391 A ,B	12-11-2003

tional Application No 'GB2004/002763

						UD 4	2004/002/63
	document earch report		Publication date	-	Patent family member(s)		Publication date
MO 00.	77431	Α		WO	0077431	A2	21-12-2000
				US	2003098154		29-05-2003
				บร	2003098162		29-05-2003
				US	2003094278		22-05-2003
				ÜS	2003024708		06-02-2003
				ÜŠ	2003094277	Α1	22-05-2003
				บร	2003094279		22-05-2003
				ÜŠ	2003121558		03-07-2003
				US	2003173090	λ1	18-09-2003
				üs	2003222459		04-12-2003
				ÜS	6604763		12-08-2003
				ÜS	6557640		06-05-2003
				บร	2002060068		23-05-2002
						 , ui	23-05-2002
US 20	03188868	A1	09-10-2003	US	6598678	B B1	29-07-2003
				US	6325148	B B1	04-12-2001
				ΑU	1413702	2 A	21-05-2002
				CA	2428479		16-05-2002
				EP	1333963		13-08-2003
				WO	0238343	3 A2	16-05-2002
				NO	20032103		14-07-2003
				บร	2003106698		12-06-2003
				AU	772790		06-05-2004
				AU	104420		03-07-2001
				CA	239374		28-06-2001
				ΕP	1242714		25-09-2002
				WO	014655		28-06-2001
				NO	2002278		14-08-2002
				ÜŠ	200218527		12-12-2002
				ÜŠ	200417335!		09-09-2004
				US	200104528		29-11-2001
WO 99	 13105	Α	18-03-1999	US	597956		09-11-1999
WO 33	T0130	М	10 00-1323	AU	73346		17-05-2001
				AU	8880598		
							29-03-1999
				CA	230468		18-03-1999
				EP	101244		28-06-2000
				MO	991319		18-03-1999
				NO	2000114		07-03-2000
				US	625385		03-07-2001
				US	200416880		02-09-2004
WO 01	18353	Α	15-03-2001	AU	77510	5 B2	15-07-2004
				AU	702070		10-04-2001
				CA	238315		15-03-2001
				ΕA		5 B1	24-04-2003
				EP	121050		05-06-2002
				WO	011835		15-03-2001
				JP	200350866		04-03-2003
				NO	2002108		19-03-2002
				NZ	51749		27-02-2004
				บร	674584		08-06-2004
UC 61	42220	^	07_11_0000				20 00 1000
US 61	4 <i>44</i> 30	Α	07-11-2000	US	595719		28-09-1999
				US	578512		28-07-1998
				AU	105440	JA	22-05-2000
					224700	E A1	11 05 0000
				CA EP	234789 112721		11-05-2000 29-08-2001

ional Application No GB2004/002763

						UDZ	004/002/63
Pa cited	itent document In search report		Publication date		Patent family member(s)	_	Publication date
US	6142230	Α		WO	0026502	2 A1	11-05-2000
				NO	20011854	ł A	12-06-2001
				ΑU	732007	7 B2	12-04-2001
				ΑU	4955097	7 A	03-06-1998
				CA	2270986	5 A1	22-05-1998
				EP	0948703	3 A2	13-10-1999
				WO	9821444	1 A2	22-05-1998
				NO	991666	5 A	23-06-1999
				NO	20021323	3 A	23-06-1999
WO	0235058	Α	02-05-2002	AU	1072102	2 A	06-05-2002
				CA	2417487	7 A1	02-05-2002
				EΡ	1328709	5 Al	23-07-2003
				WO	0235058	3 A1	02-05-2002
				US	2002108756	5 A1	15-08-2002
				US	2004159446	5 A1	19-08-2004
	·			US	2004173360) A1	09-09-2004
US	2002144822	A1	10-10-2002	GB	2371574	A ,B	31-07-2002
				GB	2388858	3 A , B	26-11-2003
				GB	2388859) A ,B	26-11-2003
				NO	20020351		25-07-2002
				US	2004084176		06-05-2004
				US	2004089454		13-05-2004
				BR	0200733		12-11-2002
	ب بن جه ک سبعت به ساختند سه بساخت			CA	2367650) A1	24-07-2002
บร	3203451	Α	31-08-1965	US	3179168		20-04-1965
				US	3203483	3 A	31-08-1965
GB	2388858	Α	26-11-2003	US	2002144822		10-10-2002
				GB	2388859		26-11-2003
				BR	0200733	3 A	12-11-2002
				CA	2367650) A1	24-07-2002
				GB	2371574	A ,B	31-07-2002
				NO	20020351	L A	25-07-2002
				US	2004084176		06-05-2004
				บร	2004089454		13-05-2004